

WHAT IS CLAIMED IS:

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1. A conveyance unit configured and arranged to be used in an image forming apparatus that comprises an image forming part for forming a visible image on a transfer material and an internal eject part provided  
10 above the image forming part within said image forming apparatus, wherein said conveyance unit is provided on a conveyance path from said image forming part to said internal eject part,

said conveyance unit comprising:

15 a transfer device that transfers the visible image, which is formed on an image carrier, onto the transfer material;

a fixing device that fixes the visible image transferred to the transfer material; and

20 an upward conveyance part that conveys and ejects the transfer material having a fixed visible image to the internal eject part,

wherein said transfer device, said fixation device and said upward conveyance part are incorporated  
25 into a single unit.

2. The conveyance unit as claimed in claim 1,  
wherein said upward conveyance part extends, when  
situated in said image forming apparatus, upwardly from  
an end of said conveyance unit and along a side of said  
5 internal eject part.

10 3. The conveyance unit as claimed in claim 1,  
wherein the entire conveyance unit is configured and  
arranged to be removable from an interior of an  
apparatus body of said image forming apparatus through a  
front side of said apparatus body.

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4. An image forming apparatus comprising:  
20 an image forming part that forms a visible  
image on a transfer material;  
an internal eject part provided above the  
image forming part within said image forming apparatus;  
and  
25 a conveyance unit provided on a conveyance

path from said image forming part to said internal eject part,

wherein said conveyance unit comprises:

5 a transfer device that transfers the visible image, which is formed on an image carrier, onto the transfer material;

a fixing device that fixes the visible image transferred to the transfer material; and

10 an upward conveyance part that conveys and ejects the transfer material having a fixed visible image to the internal eject part,

wherein said transfer device, said fixation device and said upward conveyance part are incorporated into a single unit.

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5. The image forming apparatus as claimed in  
20 claim 4, wherein said upward conveyance part extends, when situated in said image forming apparatus, upwardly from an end of said conveyance unit and along a side of said internal eject part.

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6. The image forming apparatus as claimed in claim 4, wherein the entire conveyance unit is configured and arranged to be removable from an interior of an apparatus body of said image forming apparatus  
5 through a front side of said apparatus body.

10 7. A structure of a front-side plate frame serving as a reinforcing member to reinforce a front side of an image forming apparatus that comprises:  
an image forming part that forms a visible image on a transfer material;  
15 an internal eject part provided above the image forming part within said image forming apparatus;  
and  
a conveyance unit provided on a conveyance path from said image forming part to said internal eject  
20 part,  
wherein said conveyance unit comprises:  
a transfer device that transfers the visible image, which is formed on an image carrier, onto the transfer material;  
25 a fixing device that fixes the visible image

transferred to the transfer material; and

an upward conveyance part that conveys and  
ejects the transfer material having a fixed visible  
image to the internal eject part,

5                wherein said transfer device, said fixation  
device and said upward conveyance part are incorporated  
into a single unit, and

               wherein said front-side plate frame is  
provided along a periphery of a front-side opening of  
10    said image forming part and has a protruding part  
extending upward along a side of said internal eject  
part and has an opening corresponding to an outer  
configuration of said conveyance unit.

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               8. The structure of the front-side plate  
frame as claimed in claim 7, wherein said front-side  
20    plate frame is interposed between component parts of a  
frame member constituting an apparatus body of said  
image forming apparatus.

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9. The structure of the front-side plate frame as claimed in claim 8, wherein said component parts of the frame member are pipe frames serving as columns of said frame member.

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10. The structure of the front-side plate frame as claimed in claim 7, wherein a reinforcing member is attached to said front-side plate frame at an area corresponding to a root of said protruding part, where a stress is concentrated when a load is applied to said front-side plate frame.

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11. The structure of the front-side plate frame as claimed in claim 10, wherein said reinforcing member is an L-shape bracket.

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12. The structure of the front-side plate frame as claimed in claim 10, wherein an outer front cover covering the front side of said image forming part is configured to be a double door structure so that a  
5 center line of the double door passes through the root of said protruding part, and said reinforcing member is a bracket having a magnet for locking the outer front cover.

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13. The structure of the front-side plate frame as claimed in claim 12, further comprising an  
15 interlock mechanism provided to said bracket so as to detect opening and closing of said outer front cover and control an operation of said image forming apparatus.

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14. An image forming apparatus comprising:  
an image forming part that forms a visible  
image on a transfer material;  
25 an internal eject part provided above the

image forming part within said image forming apparatus;

a conveyance unit provided on a conveyance path from said image forming part to said internal eject part, said conveyance unit including: a transfer device  
5 that transfers the visible image, which is formed on an image carrier, onto the transfer material; a fixing device that fixes the visible image transferred to the transfer material; and an upward conveyance part that conveys and ejects the transfer material having a fixed  
10 visible image to the internal eject part, wherein said transfer device, said fixation device and said upward conveyance part are incorporated into a single unit; and  
a front-side plate frame serving as a reinforcing member to reinforce a front side of said  
15 image forming apparatus, said front-side plate frame provided along a periphery of a front-side opening of said image forming part and having a protruding part extending upward along a side of said internal eject part and having an opening corresponding to an outer  
20 configuration of said conveyance unit.



15. The image forming apparatus as claimed in  
claim 14, wherein said front-side plate frame is  
interposed between component parts of a frame member  
constituting an apparatus body of said image forming  
5 apparatus.

16. The image forming apparatus as claimed in  
10 claim 15, wherein said component parts of the frame  
member are pipe frames serving as columns of said frame  
member.

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17. The image forming apparatus as claimed in  
claim 14, wherein a reinforcing member is attached to  
said front-side plate frame at an area corresponding to  
20 a root of said protruding part, where a stress is  
concentrated when a load is applied to said front-side  
plate frame.

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18. The image forming apparatus as claimed in claim 17, wherein said reinforcing member is an L-shape bracket.

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19. The image forming apparatus as claimed in claim 17, wherein an outer front cover covering the front side of said image forming part is configured to be a double door structure so that a center line of the double door passes through the root of said protruding part, and said reinforcing member is a bracket having a magnet for locking the outer front cover.

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20. The image forming apparatus as claimed in claim 19, further comprising an interlock mechanism provided to said bracket so as to detect opening and closing of said outer front cover and control an operation of said image forming apparatus.

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